Title (en)
Method and systems for controlling engine thrust using variable trim

Title (de)
Verfahren und Vorrichtung zur Regelung der Schubkraft

Title (fr)
Procédé et dispositif pour le réglage de la poussée

Publication
EP 2249004 A2 20101110 (EN)

Application
EP 10154230 A 20100222

Priority
US 43354509 A 20090430

Abstract (en)
A thrust control system for use in controlling the thrust output of a gas turbine engine (10) is provided. The thrust control system includes a first sensor (212) for measuring a first engine operating parameter, a second sensor (214) for measuring a first engine condition parameter, a processor (220) is programmed to determine an expected value of the first engine condition parameter using the measured first engine operating parameter value, determine a first variance value, using a difference between the expected value of the first engine condition parameter and the measured first engine condition parameter, determine a trim value for controlling the first engine operating parameter using the first variance value and a first engine operating parameter demand, determine a modified operating parameter demand based on the nominal operating parameter demand and the determined trim value, and a controller coupled to the processor for receiving the determined modified operating parameter demand value from the processor, the controller configured to control engine thrust based on the modified demand of the first engine operating parameter.

IPC 8 full level
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CPC (source: EP US)
F02C 9/00 (2013.01 - EP US); **F02C 9/28** (2013.01 - EP US); F05D 2270/051 (2013.01 - EP US); F05D 2270/708 (2013.01 - EP US)

Cited by
WO2014122013A1; EP2728146A3; EP3121389A1; EP4328421A1; EP4328422A1; EP2469041A1; CN103154440A; EP2762852A1; CN105074413A; RU2627617C2; KR20170109087A; US9982607B2; WO2012084453A1; US10067035B2

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